

Global High-purity Ethylene Carbonate Market Growth 2026-2032

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Abstracts

The global High-purity Ethylene Carbonate market size is predicted to grow from US\$ 325 million in 2025 to US\$ 583 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

Ethylene Carbonate (usually shortened to EC) is a cyclic carbonate solvent with the formula $C_2H_4O_2$ (often written as $(CH_2O)_2CO$). In simple words, it is a small organic molecule that behaves like a high-polarity solvent. At room temperature it is often a colorless, almost odorless crystalline solid, and it melts around the mid-30 °C range into a colorless liquid. Public chemical references describe it as a colorless liquid or crystalline solid and identify it with CAS 96-49-1. Because EC is polar, it can dissolve many salts and polar compounds. That one property—high polarity—explains a lot of why EC is valuable: it is a strong solvent for ions, which is exactly what you want in electrolytes and some specialty formulations.

From a market-definition point of view, the Ethylene Carbonate market includes EC sold as a chemical product across different purity levels and use cases. The market is usually split by grade, because different uses require very different impurity control. For example, “battery grade” EC is sold with extremely tight impurity limits such as very low water and low acid content. In contrast, industrial uses like solvent blends or plasticizer-type roles can tolerate higher impurity levels, so industrial grade can have looser specs and different packaging.

On the supply side, EC is most commonly produced by reacting ethylene oxide (EO) with carbon dioxide (CO_2) to form the cyclic carbonate ring. This route is widely described in technical literature and patents: $EO + CO_2 \rightarrow EC$, usually with a catalyst. This production pathway is often discussed as “atom-efficient” because both main

reactants end up in the product molecule rather than creating large byproduct streams, and it is also frequently discussed under the broader theme of CO₂ utilization (using CO₂ as a feedstock). In practical industrial terms, however, the true cost and scale depend less on the chemistry idea and more on real factors like EO availability, plant safety management (EO is hazardous), catalyst lifetime, purification needs, energy for distillation, and the ability to meet tight impurity specs for battery customers.

In 2025, global High-purity Ethylene Carbonate production reached approximately 209.3 K MT, with an average global market price of around US\$ 1587 per MT. The global single-line production capacity ranges from 10 to 20 K MT per year. The industry's gross profit margin is approximately 25%-35%.

Because batteries are the largest growth engine, the High-purity EC market trend is closely linked to EV and energy-storage expansion, plus the general growth of lithium-ion cells used in consumer electronics and power tools. As battery production scales, the electrolyte supply chain becomes more industrialized: more long-term supply agreements, more focus on quality systems, and more pressure to guarantee consistent 'battery-grade' material. This directly drives demand for higher-purity EC, better moisture control, cleaner packaging, and stronger logistics practices. The presence of strict 'battery grade' specs in chemical catalogs is one visible sign of how the market has shifted toward tighter impurity control and standardized quality targets.

At the same time, a key trend within batteries is that electrolyte chemistry is evolving, and EC is sometimes criticized for certain failure modes at higher voltage or specific electrode chemistries. There is active research on 'EC-free' or reduced-EC electrolytes aimed at improving high-voltage stability or safety performance, which shows that the market is not static. For example, government and academic publications discuss EC's role and also its susceptibility to certain decomposition pathways under demanding conditions, motivating new electrolyte designs. This does not automatically mean EC demand collapses—rather, it means the market is splitting into more segments. Many cells still use EC heavily, while some next-generation formulations may reduce EC content or pair it with additives (like fluorinated carbonates) to tune interphase behavior. In practical market terms, this creates both risk and opportunity: established EC suppliers can defend volume by meeting performance requirements and developing higher-purity grades, while innovators may capture value by supporting new electrolyte formulations that need different carbonate blends.

Beyond batteries, High-purity EC has a second set of demand drivers that matter for the 'baseline' market. EC is used as a high-polarity solvent and also shows up as a

functional additive in some formulations. Chemical suppliers commonly describe EC use in areas such as plasticizer roles and organic synthesis contexts, reflecting that EC is not only a battery solvent but also a versatile specialty solvent/intermediate. In lubricants and coatings, highly polar solvents can help with solubility and formulation stability, and in synthesis EC can act as a reactive carbonate source in certain transformations. Even if these non-battery uses are smaller than battery demand in growth terms, they provide a stabilizing base for EC consumption and can become more important when battery cycles soften.

LP Information, Inc. (LPI) ' newest research report, the "High-purity Ethylene Carbonate Industry Forecast" looks at past sales and reviews total world High-purity Ethylene Carbonate sales in 2025, providing a comprehensive analysis by region and market sector of projected High-purity Ethylene Carbonate sales for 2026 through 2032. With High-purity Ethylene Carbonate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-purity Ethylene Carbonate industry.

This Insight Report provides a comprehensive analysis of the global High-purity Ethylene Carbonate landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-purity Ethylene Carbonate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-purity Ethylene Carbonate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-purity Ethylene Carbonate and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-purity Ethylene Carbonate.

This report presents a comprehensive overview, market shares, and growth opportunities of High-purity Ethylene Carbonate market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade

Battery Grade

Segmentation by Purity:

Purity >99.9%

Purity 99.0%-99.9%

Segmentation by Impurity-Control Focus:

Low Moisture

Low Acid Number

Low Halides

Low Metals

Others

Segmentation by Physical Form:

Liquid Ethylene Carbonate

Solid Ethylene Carbonate

Segmentation by Application:

Lithium-ion Battery

Polymer Synthesis

Pharmaceutical Excipients

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF

Mitsubishi Chemical

TOAGOSEI

Huntsman

OUCC

Lixing Chemical

Zhongke Hongye

Haike

Shandong Shida Shenghua

Kong Lung

Hengyang New Energy

OXIRAN

Shandong Senjie Cleantech

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-purity Ethylene Carbonate market?

What factors are driving High-purity Ethylene Carbonate market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-purity Ethylene Carbonate market opportunities vary by end market size?

How does High-purity Ethylene Carbonate break out by Type, by Application?

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